

We claim:

1. A method of increasing the total oil content in a plant
5 organism or a tissue, organ, part, cell or propagation
material thereof, comprising
 - a) the transgenic expression of a polypeptide SEQ ID NO: 2
from yeast in said plant organism or in a tissue, organ,
10 part, cell or propagation material thereof, and
 - b) the selection of plant organisms in which - in contrast
to or comparison with the starting organism - the total
oil content in said plant organism or in a tissue, organ,
15 part, cell or propagation material thereof is increased.
2. A method as claimed in claim 1, wherein the polypeptide from
yeast is described by
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 - a) a sequence with the SEQ ID NO: 2
 - b) a functional equivalent of a) with an identity of at
least 60% of a sequence with SEQ ID NO: 2.
- 25 3. A method as claimed in claim 1 or 2, wherein the plant is
an oil crop.
4. A method as claimed in claim 1 or 2, wherein the total oil
content in the seed of a plant is increased.
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5. A transgenic expression cassette comprising, under the
control of a promoter which is functional in a plant organism
or a tissue, organ, part or cell thereof, a nucleic acid
sequence SEQ ID NO: 1.
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6. A transgenic expression cassette as claimed in claim 5,
wherein the nucleic acid sequence is described by
 - a) a sequence with the SEQ ID NO: 1
 - 40 b) a sequence derived from a sequence with the SEQ ID NO: 1,
in accordance with the degeneracy of the genetic code
 - c) a sequence which has at least 60% identity with the
45 sequence with the SEQ ID NO: 1.

Sequ.

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7. A transgenic expression cassette as claimed in claim 5 or 6, wherein the promoter is a seed-specific promotor.
8. A transgenic vector comprising an expression cassette as claimed in any of claims 5 to 7.
9. A transgenic plant organism or tissue, organ, part, cell or propagation material thereof, comprising a polypeptide as defined in claim 2 or an expression cassette as claimed in any of claims 5 to 7 or a vector as claimed in claim 8.
10. A transgenic plant organism as claimed in claim 9, wherein the plant organism is selected from the group of the oil crops consisting of *Borvago officinalis*, *Brassica campestris*, *Brassica napus*, *Brassica rapa*, *Cannabis sativa*, *Carthamus tinctorius*, *Cocos nucifera*, *Crambe abyssinica*, *Cuphea* species, *Elaeis guinensis*, *Elaeis oleifera*, *Glycine max*, *Gossypium hirsutum*, *Gossypium barbadense*, *Gossypium* *herbaceum*, *Helianthus annuus*, *Linum usitatissimum*, *Oenothera biennis*, *Olea europaea*, *Oryza sativa*, *Ricinus communis*, *Sesamum indicum*, *Triticum* species, *Zea mays*, walnut and almond.
11. The use of a transgenic plant organism or tissue, organ, part, cell or propagation material thereof as claimed in claim 9 or 10 for the production of oils, fats, free fatty acids or derivatives of the above.

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